



Troubleshooting-data

Model: Wagon R+ 1,2 4WD

Motor: K12A / Suzuki SMPI

Component:	From:	To:	Condition:	Value	Measured	Ref.
.	.	.	Connector seen from wire side	.		
Battery (earth)	A13	Batt. -	Ignition on	0 V		
Battery (earth)	A3	Batt. -	Ignition on	0 V		
Battery (earth)	C21	Batt. -	Ignition on	0 V		
Air temperature sensor	A26	Batt. -	Ignition on	0 V		
Air temperature sensor	C19	Batt. -	Ignition on, 20° C air temperature	2,0 - 2,7 V		
Battery (possitive)	C13	Batt. -	Ignition on	10 - 14 V		
Battery (possitive)	C13	Batt. -	Ignition off	10 - 14 V		
Canister purge valve	A12	Batt. -	Ignition on	10 - 14 V		
Canister purge valve	A12	Batt. -	Idle, rev up briefly			1028
Coolant temperature sensor	A26	Batt. -	Ignition on	0 V		
Coolant temperature sensor	C9	Batt. -	Ignition on, 80° C	0,5 - 0,95 V		
Coolant temperature sensor	C9	Batt. -	Ignition on, 0° C	3,3 - 3,8 V		
Coolant temperature sensor	C9	Batt. -	Ignition on, 50° C	1,4 - 1,7 V		
EGR valve	A4	Batt. -	Ignition on	10 - 14 V		
EGR valve	A4	Batt. -	Idle, warm			1028
Idle step motor	B10	Batt. -	Idle			1033
Idle step motor	B11	Batt. -	Idle			1033
Idle step motor	B12	Batt. -	Idle			1028
Idle step motor	B2	Batt. -	Idle			1033
Ignition	C10	Batt. -	Ignition on	10 - 14 V		
Ignition	C10	Batt. -	Ignition off	0 V		
Ignition amplifier	A24	Batt. -	Idle	0 ~ 5 V		1049
Inductive sensor	C2	C3	Starter rpm			1045
Injector cyl. 1	A1	Batt. -	Ignition on	10 - 14 V		
Injector cyl. 1	A1	Batt. -	Idle, warm	2 - 4 ms		1004
Injector cyl. 2	A14	Batt. -	Ignition on	10 - 14 V		
Injector cyl. 2	A14	Batt. -	Idle, warm	2 - 4 ms		1004
Injector cyl. 3	A2	Batt. -	Ignition on	10 - 14 V		
Injector cyl. 3	A2	Batt. -	Idle, warm	2 - 4 ms		1004
Injector cyl. 4	A15	Batt. -	Ignition on	10 - 14 V		
Injector cyl. 4	A15	Batt. -	Idle, warm	2 - 4 ms		1004
Knock sensor	C7	Batt. -	Ignition on	2,1 - 2,9 V		1040
Knock sensor	C7	Batt. -	Idle, rev up briefly			1040
MAP sensor	C15	Batt. -	Ignition on	4,75 - 5,25 V		
MAP sensor	C4	Batt. -	Ignition on	3,3 - 4 V		
MAP sensor	A26	Batt. -	Ignition on	0 V		
MAP sensor	C4	Batt. -	Idle	0,4 - 2 V		
O2-sensor with pre-heater	A16	Batt. -	Ignition on	10 - 14 V		

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O2-sensor with pre-heater	C5	A26	Idle, warm	0,1 ~ 1 V		1018
Pump relay	A10	Batt. -	Ignition on	10 - 14 V		
Pump relay	A10	Batt. -	Starter rpm	0 - 1 V		
System relay	C12	Batt. -	Ignition on	0 - 2 V		
System relay	C11	Batt. -	Ignition on	10 - 14 V		
System relay	C12	Batt. -	Ignition off	10 - 14 V		
System relay	C11	Batt. -	Ignition off	0 V		
Throttle valve potentiometer	A26	Batt. -	Ignition on	0 V		
Throttle valve potentiometer	C15	Batt. -	Ignition on	4,75 - 5,25 V		
Throttle valve potentiometer	C6	Batt. -	Ignition on, throttle valve closed	0,2 - 1 V		
Throttle valve potentiometer	C6	Batt. -	Ignition on, throttle valve fully open	2,8 - 4,8 V		